

The purpose of this application is to convert KRBK-DT, Channel 22, back into a conventional DTV facility and abandon the multi-site DTS facility. This technical facility proposed herein represents a minor change relative to the licensed (FCC File No. BLCDT-20120412ACM), repacked (FCC File No. 0000025322) and the pending (FCC File No. 0000034148) KRBK technical facility.

#### Post-Transition DTV Considerations

A study was performed using the FCC's software program, *tvstudy*, v.2.2.4, to ensure that the technical facility proposed herein protects the facilities proposed in the first priority filing window, whether those stations' applications have been granted or remain pending while protecting the construction permit facilities of reassigned stations and band changing stations filed in the initial 90-day filing window, whether those stations' applications have been granted or remain pending. Further, the instant proposal protects the facilities specified in applications filed before the April 2013 freeze with "cut-off" protection.

As demonstrated in the attached study results, the instant proposal is predicted to cause no new interference exceeding 0.5% to the populations served by any of the relevant protections discussed above. Accordingly, the instant proposal satisfies all applicable DTV interference criteria.

International DTV Considerations

As shown in the attached study, the transmitter site specified herein not within 320 kilometers of either the common border between the United States of America and Canada or between the USA and Mexico. Therefore, international notification and coordination of the instant proposal is not required.

tvstudy v2.2.4 (Z2Qqz3)  
Database: localhost, Study: KRBK 22 DTV DA 1MW 2-2-4, Model: Longley-Rice  
Start: 2017.11.27 13:36:51

Study created: 2017.11.27 13:36:51

Study build station data: LMS TV 2017-11-22 (39)

Proposal: KRBK D22 DT APP OSAGE BEACH, MO  
File number: KRBK 22 DTV DA 1MW 2-2-4  
Facility ID: 166319  
Station data: User record  
Record ID: 2511  
Country: U.S.  
Zone: II

Search options:  
Non-U.S. records included  
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KTAJ-TV	D21	DT	LIC	ST. JOSEPH, MO	BLCDT20060703AAK	242.6 km
Yes	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLCDT20090225AAV	272.4
Yes	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	277.2
Yes	KODE-TV	D23	DT	APP	JOPLIN, MO	BLANK0000034841	143.1
Yes	KODE-TV	D23	DT	CP	JOPLIN, MO	BLANK0000028345	141.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D22  
Latitude: 37 13 9.40 N (NAD83)  
Longitude: 92 56 57.40 W  
Height AMSL: 1032.0 m  
HAAT: 590.0 m  
Peak ERP: 1000 kW  
Antenna: DIE-TFU-28DSC/VP-R W (ID 1002200) 0.0 deg  
Elev Pattn: Generic  
Elec Tilt: 0.75

39.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	857 kW	595.8 m	122.1 km
45.0	942	593.1	122.9
90.0	889	561.0	120.4
135.0	942	557.5	120.7
180.0	857	579.4	121.2
225.0	125	598.4	104.7
270.0	75.6	617.4	101.2
315.0	125	619.4	105.6

ERP exceeds maximum  
ERP: 1000 kW ERP maximum: 338 kW

Distance to Canadian border: 990.8 km

Distance to Mexican border: 1138.7 km

Conditions at FCC monitoring station: Grand Island NE  
Bearing: 312.7 degrees Distance: 626.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 290.6 degrees Distance: 1111.9 km

Study cell size: 2.00 km  
 Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%  
 Maximum new IX to LPTV: 2.00%

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 Interference to BLCDDT20090225AAV LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLCDDT20090225AAV	
Undesireds:	KRBK	D22	DD	BL	OSAGE BEACH, MO	DTVBL166319	332.9 km
	KRBK	D22	DT	APP	OSAGE BEACH, MO	KRBK 22 DTV DA 1MW 2-2	272.4
	KKYK-CD	D21	DC	CP	LITTLE ROCK, AR	BLANK0000029217	0.7
	KMCT-TV	D22	DT	CP	WEST MONROE, LA	BLANK0000026257	256.6
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDDT20021127AGL	319.7
	KETK-TV	D22	DT	LIC	JACKSONVILLE, TX	BMLCDDT20120516ABW	401.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
44308.8		1,257,777		42418.5		1,224,852	0.98 0.27
				1,234,933			
				42020.7			
		Total IX	Unique IX, before		Unique IX, after		
Undesired							
KRBK D22 DD BL		0.0	0	0.0	0		
KRBK D22 DT APP		470.6	4,307			410.5	3,295
KKYK-CD D21 DC CP		12.1	10	12.1	10	12.1	10
KMCT-TV D22 DT CP		16.0	0	12.0	0	12.0	0
KOKI-TV D22 DT LIC		353.7	6,740	349.7	6,740	289.5	5,728
KETK-TV D22 DT LIC		24.0	36	16.0	36	16.0	36

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 Interference to BLCDDT20021127AGL LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDDT20021127AGL	
Undesireds:	KRBK	D22	DD	BL	OSAGE BEACH, MO	DTVBL166319	285.0 km
	KRBK	D22	DT	APP	OSAGE BEACH, MO	KRBK 22 DTV DA 1MW 2-2	277.2
	KHBS	D21	DT	LIC	FORT SMITH, AR	BLCDDT20031121AMR	139.5
	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLCDDT20090225AAV	319.7
	KSNC	D22	DT	LIC	GREAT BEND, KS	BLCDDT20081112AIQ	382.5
	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDDT20090724ACR	351.7
	KODE-TV	D23	DT	APP	JOPLIN, MO	BLANK0000034841	153.9
	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLCDDT20140530AFS	170.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37671.9		1,366,220		36775.1		1,331,473	0.03 0.03
				1,352,227			
				35288.7			
		Total IX	Unique IX, before		Unique IX, after		
Undesired							
KRBK D22 DD BL		39.9	356	12.0	200		
KRBK D22 DT APP		72.0	1,290			24.0	617
KHBS D21 DT LIC		795.1	11,368	601.4	7,527	597.4	7,169
KATV D22 DT LIC		270.0	5,426	72.3	1,528	64.3	1,435
KSNC D22 DT LIC		8.0	1	8.0	1	8.0	1
KAUZ-TV D22 DT LIC		44.3	142	36.3	47	36.3	47
KODE-TV D23 DT APP		478.3	6,462	454.4	6,363	454.3	6,344
KSBI D23 DT LIC		80.4	674	72.3	579	72.3	579

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 Interference to BLCDDT20021127AGL LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDDT20021127AGL	
Undesireds:	KRBK	D22	DD	BL	OSAGE BEACH, MO	DTVBL166319	285.0 km
	KRBK	D22	DT	APP	OSAGE BEACH, MO	KRBK 22 DTV DA 1MW 2-2	277.2
	KHBS	D21	DT	LIC	FORT SMITH, AR	BLCDDT20031121AMR	139.5
	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLCDDT20090225AAV	319.7
	KSNC	D22	DT	LIC	GREAT BEND, KS	BLCDDT20081112AIQ	382.5

KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDT20090724ACR	351.7
KODE-TV	D23	DT	CP	JOPLIN, MO	BLANK0000028345	154.9
KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLCDT20140530AFS	170.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
37671.9	1,366,220	36775.1	1,352,227	35535.8	1,335,037	35527.8	1,334,623	0.02	0.03

Undesired		Total IX		Unique IX, before		Unique IX, after	
KRBK D22 DD BL	39.9	356		24.0	204		
KRBK D22 DT APP	72.0	1,290				32.0	618
KHBS D21 DT LIC	795.1	11,368		601.4	7,527	597.4	7,169
KATV D22 DT LIC	270.0	5,426		72.3	1,528	64.3	1,435
KSNC D22 DT LIC	8.0	1		8.0	1	8.0	1
KAUZ-TV D22 DT LIC	44.3	142		36.3	47	36.3	47
KODE-TV D23 DT CP	219.2	3,311		207.2	3,216	203.2	3,194
KSBI D23 DT LIC	80.4	674		72.3	579	72.3	579

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Interference to BLANK0000034841 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KODE-TV	D23	DT	APP	JOPLIN, MO	BLANK0000034841	
Undesireds:	KRBK	D22	DD	BL	OSAGE BEACH, MO	DTVBL166319	134.0 km
	KRBK	D22	DT	APP	OSAGE BEACH, MO	KRBK 22 DTV DA 1MW 2-2	143.1
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	153.9
	KETC	D23	DT	APP	ST. LOUIS, MO	BLANK0000034609	397.2
	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLCDT20140530AFS	309.9
	KKAF-CD	D24	DC	CP	SILOAM SPRINGS, AR	BLANK0000025891	102.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32417.1	792,668	31783.6	782,201	31097.8	768,492	31020.4	766,825	0.25	0.22

Undesired		Total IX		Unique IX, before		Unique IX, after	
KRBK D22 DD BL	158.8	960		158.8	960		
KRBK D22 DT APP	240.1	2,661				236.1	2,627
KOKI-TV D22 DT LIC	131.6	3,761		87.8	2,708	87.8	2,708
KETC D23 DT APP	4.0	34		4.0	34	0.0	0
KSBI D23 DT LIC	263.4	2,665		203.6	1,107	203.6	1,107
KKAF-CD D24 DC CP	187.9	7,847		172.0	7,342	172.0	7,342

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Interference to BLANK0000034841 APP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KODE-TV	D23	DT	APP	JOPLIN, MO	BLANK0000034841	
Undesireds:	KRBK	D22	DD	BL	OSAGE BEACH, MO	DTVBL166319	134.0 km
	KRBK	D22	DT	APP	OSAGE BEACH, MO	KRBK 22 DTV DA 1MW 2-2	143.1
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	153.9
	KETC	D23	DT	APP	ST. LOUIS, MO	BLANK0000034609	397.2
	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLCDT20140530AFS	309.9
	KKAF-CD	D24	DC	APP	SILOAM SPRINGS, AR	BLANK0000034437	108.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32417.1	792,668	31783.6	782,201	31197.8	771,637	31120.4	769,970	0.25	0.22

Undesired		Total IX		Unique IX, before		Unique IX, after	
KRBK D22 DD BL	158.8	960		158.8	960		
KRBK D22 DT APP	240.1	2,661				236.1	2,627
KOKI-TV D22 DT LIC	131.6	3,761		87.8	2,708	87.8	2,708
KETC D23 DT APP	4.0	34		4.0	34	0.0	0
KSBI D23 DT LIC	263.4	2,665		219.5	1,612	219.5	1,612
KKAF-CD D24 DC APP	72.0	4,197		72.0	4,197	72.0	4,197

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Interference to BLANK0000028345 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KODE-TV	D23	DT	CP	JOPLIN, MO	BLANK0000028345	

Undesireds:	KRBK	D22	DD	BL	OSAGE BEACH, MO	DTVBL166319	132.7 km
	KRBK	D22	DT	APP	OSAGE BEACH, MO	KRBK 22 DTV DA 1MW 2-2	141.6
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDDT20021127AGL	154.9
	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLCDDT20140530AFS	311.2
	KKAF-CD	D24	DC	CP	SILOAM SPRINGS, AR	BLANK0000025891	102.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
26500.3 619,816	26233.3 616,615	25970.1 614,632	25937.6 613,080	0.12 0.25

Undesired	Total IX	Unique IX, before	Unique IX, after
KRBK D22 DD BL 67.5	242	67.5	242
KRBK D22 DT APP 100.0	1,794		100.0 1,794
KOKI-TV D22 DT LIC 55.8	770	27.9	552 27.9 552
KSBI D23 DT LIC 163.7	1,151	135.8	933 135.8 933
KKAF-CD D24 DC CP 4.0	38	4.0	38 4.0 38

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Interference to BLANK0000028345 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KODE-TV	D23	DT	CP	JOPLIN, MO	BLANK0000028345	
Undesireds:	KRBK	D22	DD	BL	OSAGE BEACH, MO	DTVBL166319	132.7 km
	KRBK	D22	DT	APP	OSAGE BEACH, MO	KRBK 22 DTV DA 1MW 2-2	141.6
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDDT20021127AGL	154.9
	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLCDDT20140530AFS	311.2
	KKAF-CD	D24	DC	APP	SILOAM SPRINGS, AR	BLANK0000034437	107.8
Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX			
26500.3 619,816	26233.3 616,615	25958.1 611,629	25925.6 610,077	0.13 0.25			

Undesired	Total IX	Unique IX, before	Unique IX, after
KRBK D22 DD BL 67.5	242	67.5	242
KRBK D22 DT APP 100.0	1,794		100.0 1,794
KOKI-TV D22 DT LIC 55.8	770	27.9	552 27.9 552
KSBI D23 DT LIC 163.7	1,151	135.8	933 135.8 933
KKAF-CD D24 DC APP 16.0	3,041	16.0	3,041 16.0 3,041

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Interference to proposal scenario 1  
\*\*MX: 3.29% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KRBK	D22	DT	APP	OSAGE BEACH, MO	KRBK 22 DTV DA 1MW 2-2	
Undesireds:	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLCDDT20090225AAV	272.4 km
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDDT20021127AGL	277.2
	KODE-TV	D23	DT	APP	JOPLIN, MO	BLANK0000034841	143.1
Service area	Terrain-limited	IX-free	Percent IX				
41547.1 983,888	40782.8 966,187	39732.2 934,380	2.58 3.29				

Undesired	Total IX	Unique IX	Prct Unique IX
KATV D22 DT LIC 522.9	18,035	459.0	13,263 1.13 1.37
KOKI-TV D22 DT LIC 403.6	15,335	163.6	1,774 0.40 0.18
KODE-TV D23 DT APP 364.1	11,998	188.0	3,209 0.46 0.33

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Interference to proposal scenario 2  
3.24% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KRBK	D22	DT	APP	OSAGE BEACH, MO	KRBK 22 DTV DA 1MW 2-2	
Undesireds:	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLCDDT20090225AAV	272.4 km
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDDT20021127AGL	277.2
	KODE-TV	D23	DT	CP	JOPLIN, MO	BLANK0000028345	141.6
Service area	Terrain-limited	IX-free	Percent IX				
41547.1 983,888	40782.8 966,187	39784.3 934,844	2.45 3.24				

Undesired		Total IX		Unique IX	Prcnt Unique IX	
KATV D22 DT LIC	522.9	18,035	459.0	13,263	1.13	1.37
KOKI-TV D22 DT LIC	403.6	15,335	167.6	2,518	0.41	0.26
KODE-TV D23 DT CP	308.0	10,790	135.9	2,745	0.33	0.28